

10553948deoxyguanosine.txt

Set	Items	Description

? e au=sato, yuki o?		
Ref	Items	Index-term
E1	2	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
E2	722	AU=SATO, YUKI O
E3	0	*AU=SATO, YUKI O?
E4	7	AU=SATO, YUKI SHI GE
E5	45	AU=SATO, YUKI TA
E6	2	AU=SATO, YUKI TAKA
E7	1	AU=SATO, YUKI TERU
E8	21	AU=SATO, YUKI TO
E9	3	AU=SATO, YUKI TOM
E10	6	AU=SATO, YUKI TOSHI
E11	59	AU=SATO, YUKI YA
E12	35	AU=SATO, YUKI YASU
Enter P or PAGE for more		
? s e1-e2		
	2	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
	722	AU=SATO, YUKI O
S1	724	E1-E2
? s s1 and deoxyguanosine		
	724	S1
	64174	DEOXYGUANOSINE
S2	0	S1 AND DEOXYGUANOSINE
? s s1 and guanosine		
	724	S1
	250673	GUANOSINE
S3	0	S1 AND GUANOSINE
? e au=sako, y?		
Ref	Items	Index-term
E1	1	AU=SAKO, Y. KADOTA, H.
E2	9	AU=SAKO, Y*
E3	0	*AU=SAKO, Y?
E4	14	AU=SAKO, YAMATO
E5	1	AU=SAKO, YASHUSHI
E6	2	AU=SAKO, YASUHI KO
E7	88	AU=SAKO, YASUHI RO
E8	71	AU=SAKO, YASUHI TO
E9	1	AU=SAKO, YASUJI
E10	1	AU=SAKO, YASUNORI
E11	80	AU=SAKO, YASUSHI
E12	141	AU=SAKO, YOICHI RO
Enter P or PAGE for more		
? page		
Ref	Items	Index-term
E13	1	AU=SAKO, YOSHI BA
E14	10	AU=SAKO, YOSHI E
E15	2	AU=SAKO, YOSHI HARU
E16	270	AU=SAKO, YOSHI HI KO
E17	63	AU=SAKO, YOSHI HI RO
E18	2	AU=SAKO, YOSHI HI TO
E19	12	AU=SAKO, YOSHI O
E20	11	AU=SAKO, YOSHI TAKA
E21	1	AU=SAKO, YOSHI TO
E22	1	AU=SAKO, YOSHI TOMO
E23	15	AU=SAKO, YOSHI YASU

E24 10553948deoxyguanosine.txt
1 AU=SAKO, YOSHIKO KO

Enter P or PAGE for more
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Ref	Items	Index-term
E25	1	AU=SAKO, YOSUKE
E26	2	AU=SAKO, YUI CHI RO
E27	13	AU=SAKO, YUJI
E28	5	AU=SAKO, YUKA
E29	1	AU=SAKO, YUKI
E30	1	AU=SAKO, YUKI E
E31	2	AU=SAKO, YUKI HI RO
E32	3	AU=SAKO, YUKI KAZU
E33	3	AU=SAKO, YUKI KO
E34	2	AU=SAKO, YUKI NOBU
E35	21	AU=SAKO, YUKI O
E36	6	AU=SAKO, YUKI TOSHI

Enter P or PAGE for more
? s e35 S4 21 AU=SAKO, YUKI O
? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.

S5 20 RD (unique items)

? t ss5/3,k/1-20

>>>KWC option is not available in file(s): 399

5/3, K/1 (Item 1 from file: 103)

DI ALCG(R) File 103: Energy Sci Tec

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03893665 JPN-95-008168; EDB-95-137433

Title: High sensitivity X-ray analyzer for total X-ray fluorescence analysis

Author(s): Utaka, Tadashi; Sako, Yukio; Kohno, Hiroshi; Shoji, Takashi; Shimizu, Kazuaki (Rikaku Industrial Corp., Takatsuki, Osaka (Japan)); Miyazaki, Kunihiro; Shimazaki, Ayako

Source: X-sen Bunseki No Shinpo v 25. Coden: XBNSDA ISSN: 0911-7806

Publication Date: Mar 1994

p 203-212

Language: Japanese

... Author(s): Sako, Yukio

5/3, K/2 (Item 1 from file: 399)

DI ALCG(R) File 399: CA SEARCH(R)

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148565615 CA: 148(25)565615r JOURNAL

History of copper refining technology (3)

AUTHOR(S): Sako, Yukio

LOCATION: National Science Museum, Japan,

JOURNAL: Kozan (Kozan) DATE: 2007 VOLUME: 60 NUMBER: 1 PAGES: 31-40

CODEN: KOZADW ISSN: 0287-9840 LANGUAGE: Japanese PUBLISHER: Kizoku Kozankai, Nippon Kogyo Kyokai

5/3, K/3 (Item 2 from file: 399)
 DI ALCG(R) File 399: CA SEARCH(R)
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147525580 CA: 147(25)525580y JOURNAL
 History of copper smelting technology
 AUTHOR(S): Sako, Yukio
 LCCATI CN: Information Center of Industrial Technological History,
 National Science Museum, Tokyo, Japan,
 JOURNAL: Kozan (Kozan) DATE: 2006 VOLUME: 59 NUMBER: 11 PAGES: 39-52
 CODEN: KQZADW ISSN: 0287-9840 LANGUAGE: Japanese PUBLISHER: Kinzoku
 Kozankai, Nippon Kogyo Kyokai

5/3, K/4 (Item 3 from file: 399)
 DI ALCG(R) File 399: CA SEARCH(R)
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142438413 CA: 142(23)438413z PATENT
 X-ray detector and its use in fluorescent x-ray analyzer
 INVENTOR(AUTHOR): Sako, Yukio; Shoji, Takashi; Arage, Akira
 LCCATI CN: Japan,
 ASSIGNEE: Rigaku Industrial Corp.
 PATENT: Japan Kokai Tokkyo Koho ; JP 2005121400 A2 DATE: 20050512
 APPLI CATI CN: JP 2003354581 (20031015)
 PAGES: 7 pp. CODEN: JKXXAF LANGUAGE: Japanese
 PATENT CLASSIFI CATI CN:
 CLASS: G01T-007/00A; G01N-023/223B; G01T-001/20B

5/3, K/5 (Item 4 from file: 399)
 DI ALCG(R) File 399: CA SEARCH(R)
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141342550 CA: 141(20)342550v PATENT
 Fluorescent x-ray analyzer
 INVENTOR(AUTHOR): Ayukawa, Yasuhiro; Ono, Megumi; Sako, Yukio
 LCCATI CN: Japan,
 ASSIGNEE: Rigaku Industrial Corporation
 PATENT: PCT International ; WO 200488296 A1 DATE: 20041014
 APPLI CATI CN: WO 2004P3229 (20040311) *JP 200391965 (20030328)
 PAGES: 14 pp. CODEN: P1XXD2 LANGUAGE: Japanese
 PATENT CLASSIFI CATI CN:
 CLASS: G01N-023/23A
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
 PT; RO; RU; SC; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
 UZ; VC; VN; YU; ZA; ZM; ZW; DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MN; MZ;
 SD; SL; SZ; TZ; UG; ZM; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE;
 BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL;
 PT; RO; SE; SI; SK; TR; BF; BJ; OF; OG; CI; OM; GA; GN; GQ; GW; ML; MR; NE;
 SN; TD; TG

5/3, K/6 (Item 5 from file: 399)
 DI ALCG(R) File 399: CA SEARCH(R)
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139239197 CA: 139(15)239197v PATENT
 Apparatus for fluorescent x-ray analysis under helium
 Page 3

10553948deoxyguanosine.txt
I INVENTOR(AUTHOR): Nishimoto, Yuki o; M sonou, Takashi; Kimoto, Katsumi;
Sako, Yuki o
LOCATI ON: Japan,
ASSI GNEE: Ri gaku Industrial Corporation
PATENT: Japan Kokai Tokkyo Koho ; JP 2003254919 A2 DATE: 20030910
APPLI CATI ON: JP 200256800 (20020304)
PAGES: 8 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSI FI CATI ONS:
CLASS: G01N-023/ 223A

5/ 3, K/ 7 (Item 6 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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139142918 CA: 139(9) 142918t PATENT
Wavelength dispersive fluorescence X ray spectrometer
I INVENTOR(AUTHOR): Kimoto, Katsumi; Sako, Yuki o
LOCATI ON: Japan,
ASSI GNEE: Ri gaku Industrial Corporation
PATENT: Japan Kokai Tokkyo Koho ; JP 2003215073 A2 DATE: 20030730
APPLI CATI ON: JP 200218298 (20020128)
PAGES: 5 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSI FI CATI ONS:
CLASS: G01N-023/ 223A

5/ 3, K/ 8 (Item 7 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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135295213 CA: 135(20) 295213b PATENT
X-ray detector
I INVENTOR(AUTHOR): Fujimori, Junji; Sako, Yuki o
LOCATI ON: Japan,
ASSI GNEE: Ri gaku Denki Kogyo K. K.
PATENT: Japan Kokai Tokkyo Koho ; JP 2001281342 A2 DATE: 20011010
APPLI CATI ON: JP 200089348 (20000328)
PAGES: 4 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSI FI CATI ONS:
CLASS: G01T-001/ 18A; G01T-007/ 00B; H01J-047/ 06B

5/ 3, K/ 9 (Item 8 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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134269101 CA: 134(19) 269101y CONFERENCE PROCEEDING
Copper-containing waste processing and recycling in Mitsui Mining &
Smelting Co. Electrodeposited copper foil production from
copper-containing recycling materials
AUTHOR(S): Sako, Yuki o; Yuki mas, Toshi aki
LOCATI ON: MESCO, Inc. Engineering Division of Mitsui Mining and Smelting
Co., Ltd.; Tokyo, Japan,
JOURNAL: GME '99, Global Met. Environ., Proc. Global Conf. Environ.
Control Min. Metal. EDITOR: Qu, Dingfan (Ed); Chu, Youyi (Ed), DATE:
1999 PAGES: 406-412 CODEN: 69AX01 LANGUAGE: English PUBLISHER:
International Academic Publishers, Beijing, Peop. Rep. China

5/ 3, K/ 10 (Item 9 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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132169021 CA: 132(13) 169021n JOURNAL
Effecti ve production in cr ease met hod el ect ro lytic copper
AUTHOR(S): Yuki rasa, Toshi aki ; Ki tahara, Takayoshi ; Sako, Yuki o
LOCATION: M tsui Ki nzoku Engi neer ing Co., Ltd., Japan,
JOURNAL: Kozan DATE: 1999 VOLUME: 52 NUMBER: 9 PAGES: 21-25 CODEN:
KOZADW ISSN: 0287-9840 LANGUAGE: Japanese PUBLISHER: Ki nzoku Kozankai,
Ni ppon Kogyo Kyokai

5/3, K/11 (Item 10 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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129350333 CA: 129(26) 350333u PATENT
Met hod and device for setting incident radiation angular in total
reflection X-ray fluorescence analysis
INVENTOR(AUTHOR): Sako, Yuki o
LOCATION: Japan,
ASSIGNEE: Ri gaku Denki Kogyo K. K.
PATENT: Japan Kokai Tokkyo Koho ; JP 98282021 A2 ; JP 10282021 DATE:
19981023
APPLICATI ON: JP 9783940 (19970402)
PAGES: 11 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSIFI CATION:
CLASS: G01N-023/223A; G01N-001/28B

5/3, K/12 (Item 11 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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128278342 CA: 128(22) 278342f JOURNAL
Devel opment of portable X-ray fluorescence spectrometer
AUTHOR(S): Hirai, Makoto ; Utaka, Tadashi ; Sako, Yuki o; Ni sawa, Atsushi ;
Nomura, Shi geaki ; Tani guchi, Kazuo
LOCATION: RI GAKU Industrial Corporation, Takasaki, Japan, 569-1146
JOURNAL: X-sen Bunseki no Shi npo DATE: 1998 VOLUME: 29, PAGES: 93-104
CODEN: XBNSDA ISSN: 0911-7806 LANGUAGE: Japanese PUBLISHER: Agune
G jutsu Sent a

5/3, K/13 (Item 12 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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126123830 CA: 126(9) 123830y PATENT
X-ray detector for detecting the characteristic x-rays of a material
INVENTOR(AUTHOR): Uko, Tadashi ; Shoji, Takashi ; Sako, Yuki o
LOCATION: Japan,
ASSIGNEE: Ri gaku Denki Kogyo K. K.
PATENT: Japan Kokai Tokkyo Koho ; JP 96313642 A2 ; JP 08313642 DATE:
19961129
APPLICATI ON: JP 95142674 (19950516)
PAGES: 4 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSIFI CATION:
CLASS: G01T-007/00A; G01N-023/223B; G01T-001/24B; G21K-003/00B

5/3, K/14 (Item 13 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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10553948deoxyguanosine.txt
120081421 CA: 120(8) 81421 JOURNAL
The contribution of electrolytic manganese dioxide and zinc powder to recent improvement in dry battery performance
AUTHOR(S): Sako, Yuki o; Sasaki, Masamoto; Kobayashi, Sat oru; Senzaki, Hiroshi
LOCATION: Battery Mater. Div., Mitsui Min. and Smelting Co., Ltd., Japan,
JOURNAL: Metal. Rev. MM J DATE: 1992 VOLUME: 9 NUMBER: 2 PAGES: 152-61 CODEN: MRMED ISSN: 0289-6214 LANGUAGE: English

5/3, K/15 (Item 14 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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119194602 CA: 119(18) 194602s JOURNAL
Ultrace analysis by total reflection x-ray fluorescence method
AUTHOR(S): Utaka, Tadashi; Sako, Yuki o; Kojima, Shinjiro; Iwamoto, Kanemasa; Kouno, Hiroshi; Atsumi, Jun
LOCATION: Rigaku Ind. Corp., Takatsuki, Japan, 569
JOURNAL: X-sen Bunseki no Shimpou DATE: 1992 VOLUME: 23, PAGES: 225-38
CODEN: XBNSDA ISSN: 0911-7806 LANGUAGE: Japanese MEETING DATE: 910000

5/3, K/16 (Item 15 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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116206942 CA: 116(20) 206942f JOURNAL
Instrumentation and applications of total reflection fluorescence spectroscopy
AUTHOR(S): Iwamoto, Kanemasa; Kojima, Shinjiro; Sako, Yuki o; Utaka, Tadashi; Arai, Tomoya
LOCATION: RIGAKU Ind. Corp., Takatsuki, Japan,
JOURNAL: Anal. Sci. DATE: 1991 VOLUME: 7 NUMBER: Suppl., Proc. Int. Congr. Anal. Sci., 1991, Pt. 1 PAGES: 499-502 CODEN: ANSCEN ISSN: 0910-6340 LANGUAGE: English

5/3, K/17 (Item 16 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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113204098 CA: 113(22) 204098z JOURNAL
Instrumentation and applications of total reflection x-ray fluorescent spectrometry
AUTHOR(S): Sako, Yuki o; Iwamoto, Kanemasa; Kojima, Shinjiro
LOCATION: Rigaku Ind. Corp., Takatsuki, Japan, 569
JOURNAL: X-sen Bunseki no Shimpou DATE: 1989 VOLUME: 21, PAGES: 123-34
CODEN: XBNSDA ISSN: 0911-7806 LANGUAGE: Japanese

5/3, K/18 (Item 17 from file: 399)
DI ALCG(R) File 399: CA SEARCH(R)
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94054705 CA: 94(8) 54705t CONFERENCE PROCEEDING
Current status of zinc electrolytic industries and energy saving
AUTHOR(S): Sako, Yuki o
LOCATION: Mitsui Kinzoku Kozan K. K., Japan,
JOURNAL: Denki Kagaku Kogyo no Shoenenerugii to Enerugi Kanri DATE: 1980
PAGES: 9/1-13 CODEN: 44KFAB LANGUAGE: Japanese PUBLISHER: Denki Kagaku Kyokai, Tokyo, Japan

5/3, K/19 (Item 18 from file: 399)
 DI ALCG(R) File 399: CA SEARCH(R)
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94054704 CA: 94(8)54704s CONFERENCE PROCEEDING
 Current status of copper electrolytic industries and energy saving
 technology
 AUTHOR(S): Sako, Yukio
 LOCATION: Mtsui Kinzoku Kogyo K. K., Japan,
 JOURNAL: Denki Kagaku Kogyo no Shoenerugii to Enerugii Kanri DATE: 1980
 PAGES: 8/1-16 CODEN: 44KFAB LANGUAGE: Japanese PUBLISHER: Denki Kagaku
 Kyokai, Tokyo, Japan

5/3, K/20 (Item 1 from file: 8)
 DI ALCG(R) File 8: EI Compendex(R)
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0014312712 E.I. COMPENDEX No: 1999204602572
 Examination of the effective method on increasing production capacity of
 copper electrolyzing
 Sako, Yukio; Nishimura, Yuji; Kitahara, Koki chi; Yuki nasa, Toshi aki
 Correspond. Author/Affil: Sako, Yukio: MESCO, Inc
 Metalurgical Review of MMJ (Mining and Metallurgical Institute of
 Japan) (Metall Rev MMJ) 1998, 15/2 (175-183)
 Publication Date: 19981201
 Publisher: Mining & Metallurgical Inst of Japan
 CODEN: MMRE ISSN: 0289-6214
 Document Type: Article; Journal Record Type: Abstract
 Treatment: G (General review)
 Language: English Summary Language: English

Sako, Yukio; Nishimura, Yuji; Kitahara, Koki chi; Yuki nasa, Toshi aki
 Correspond. Author/Affil: Sako, Yukio: MESCO, Inc
 ? e au=kobayashi, hiruko?

Ref	Items	Index-term
E1	289	AU=KOBAYASHI, HI ROKI
E2	262	AU=KOBAYASHI, HI ROKO
E3	0	AU=KOBAYASHI, HI ROKO?
E4	34	AU=KOBAYASHI, HI ROKUNI
E5	1	AU=KOBAYASHI, HI ROKUNI •
E6	113	AU=KOBAYASHI, HI ROMASA
E7	349	AU=KOBAYASHI, HI ROM
E8	169	AU=KOBAYASHI, HI ROM CHI
E9	2	AU=KOBAYASHI, HI ROM CHI P.
E10	27	AU=KOBAYASHI, HI ROM TSU
E11	1	AU=KOBAYASHI, HI ROM
E12	2	AU=KOBAYASHI, HI ROMOTO

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? s e2
 S6 262 AU= KOBAYASHI, HI ROKO
 ? s6 and guanosine
 262 S6
 250673 GUANOSINE

S7 0 S6 AND GUANOSINE

? kobayashi, h?

>>>When using accession numbers with KEEP in OneSearch, you
 >>>must use the FROM option to specify a file number.
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Ref	Items	Index-term
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E2	46	AU=KOBAYASHI, H*
E3	0	AU=KOBAYASHI, H?
E4	15	AU=KOBAYASHI, HA
E5	7	AU=KOBAYASHI, HACHI RO
E6	1	AU=KOBAYASHI, HACHI SABURO
E7	1	AU=KOBAYASHI, HACHI SHI RO
E8	2	AU=KOBAYASHI, HACHI SI RO
E9	255	AU=KOBAYASHI, HAJI ME
E10	1	AU=KOBAYASHI, HAJI MU
E11	2	AU=KOBAYASHI, HAKARU
E12	1	AU=KOBAYASHI, HAKUO

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E14	1	AU=KOBAYASHI, HANUO
E15	1	AU=KOBAYASHI, HARO
E16	1	AU=KOBAYASHI, HAROU
E17	1	AU=KOBAYASHI, HARRY T
E18	4	AU=KOBAYASHI, HARUAKI
E19	5	AU=KOBAYASHI, HARUFUMI
E20	17	AU=KOBAYASHI, HARUHI KO
E21	12	AU=KOBAYASHI, HARUHI RO
E22	79	AU=KOBAYASHI, HARUHI TO
E23	21	AU=KOBAYASHI, HARUJI
E24	2	AU=KOBAYASHI, HARUJI RO

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Ref	Items	Index-term
E25	1	AU=KOBAYASHI, HARUKA
E26	68	AU=KOBAYASHI, HARUKI
E27	7	AU=KOBAYASHI, HARUKO
E28	80	AU=KOBAYASHI, HARUMI
E29	1	AU=KOBAYASHI, HARUMI CHI
E30	7	AU=KOBAYASHI, HARUNOBU
E31	382	AU=KOBAYASHI, HARUO
E32	1	AU=KOBAYASHI, HARUOMI
E33	1	AU=KOBAYASHI, HARUSHI GE
E34	34	AU=KOBAYASHI, HARUTO
E35	1	AU=KOBAYASHI, HARUTOKI
E36	22	AU=KOBAYASHI, HARUTOSHI

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Ref	Items	Index-term
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E38	5	AU=KOBAYASHI, HARUYOSHI
E39	1	AU=KOBAYASHI, HARUYUKI
E40	2	AU=KOBAYASHI, HARUZI
E41	1	AU=KOBAYASHI, HARUZO
E42	1	AU=KOBAYASHI, HASAO
E43	11	AU=KOBAYASHI, HATASU
E44	1	AU=KOBAYASHI, HATATAKA
E45	4	AU=KOBAYASHI, HATSUE
E46	1	AU=KOBAYASHI, HATSUKO
E47	7	AU=KOBAYASHI, HATSUM

E48 2 AU=KOBAYASHI, HATSUO

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E49	2	AU=KOBAYASHI, HAYAHI RO
E50	1	AU=KOBAYASHI, HAYAJI

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Ref	Items	Index-term
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E2	711	AU=KOBAYASHI, HAYAO
E3	1	AU=KOBAYASHI, HAYAO (DEPT. OF CHEM STRY, FACULTY
E4	10	AU=KOBAYASHI, HAYATO
E5	1	AU=KOBAYASHI, HAYO
E6	1	AU=KOBAYASHI, HAZI ME
E7	1	AU=KOBAYASHI, HAZUHI RO
E8	1	AU=KOBAYASHI, HEDEAKI
E9	1	AU=KOBAYASHI, HEDEKAZU
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E11	1	AU=KOBAYASHI, HEDETOSHI
E12	3	AU=KOBAYASHI, HEIGO

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Ref	Items	Index-term
E13	2	AU=KOBAYASHI, HEI HACHI
E14	5	AU=KOBAYASHI, HEI HACHI RO
E15	14	AU=KOBAYASHI, HEI JI
E16	1	AU=KOBAYASHI, HEI KI CHI
E17	2	AU=KOBAYASHI, HEI SUKE
E18	2	AU=KOBAYASHI, HEI TARO
E19	1	AU=KOBAYASHI, HERBERT K.
E20	1	AU=KOBAYASHI, HERBERT KUMEKO
E21	6	AU=KOBAYASHI, HERBERT S.
E22	1	AU=KOBAYASHI, HERBERT S.
E23	4	AU=KOBAYASHI, HESTER
E24	3	AU=KOBAYASHI, HESTER A

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Ref	Items	Index-term
E25	5	AU=KOBAYASHI, HESTER A.
E26	2	AU=KOBAYASHI, HESTER ATSUKO
E27	1	AU=KOBAYASHI, HI ASSHI
E28	1	AU=KOBAYASHI, HI DDESABURO
E29	42	AU=KOBAYASHI, HI DE
E30	349	AU=KOBAYASHI, HI DEAKI
E31	1	AU=KOBAYASHI, HI DEASKI
E32	1	AU=KOBAYASHI, HI DEE
E33	18	AU=KOBAYASHI, HI DEFUM
E34	22	AU=KOBAYASHI, HI DEHARU
E35	679	AU=KOBAYASHI, HI DEHI KO
E36	10	AU=KOBAYASHI, HI DEHI RO

Enter P or PAGE for more
? page

Ref	Items	Index-term
E37	2	AU=KOBAYASHI, HI DEHI SA

10553948deoxyguanosine.txt

E38	4	AL=KOBAYASHI, HI DEHI TO
E39	19	AL=KOBAYASHI, HI DEJI
E40	1	AL=KOBAYASHI, HI DEJI RO
E41	1	AL=KOBAYASHI, HI DEJYU
E42	9	AL=KOBAYASHI, HI DEKA
E43	3	AL=KOBAYASHI, HI DEKATSU
E44	314	AL=KOBAYASHI, HI DEKAZU
E45	1	AL=KOBAYASHI, HI DEKAZU.
E46	1142	AL=KOBAYASHI, HI DEKI
E47	1	AL=KOBAYASHI, HI DEKI DOW CORNING T.
E48	1	AL=KOBAYASHI, HI DEKI MAIN OFFICE F.

Enter P or PAGE for more

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Ref	Items	Index-term
E49	1	AL=KOBAYASHI, HI DEKI I
E50	17	AL=KOBAYASHI, HI DEKO

? page

Ref	Items	Index-term
E1	17	AL=KOBAYASHI, HI DEKO
E2	1	AL=KOBAYASHI, HI DELI
E3	27	AL=KOBAYASHI, HI DEMASA
E4	1	AL=KOBAYASHI, HI DEM
E5	6	AL=KOBAYASHI, HI DEM NE
E6	105	AL=KOBAYASHI, HI DEM TSU
E7	1	AL=KOBAYASHI, HI DEM TSU*
E8	5	AL=KOBAYASHI, HI DEMOTO
E9	1	AL=KOBAYASHI, HI DENARI
E10	23	AL=KOBAYASHI, HI DENOBU
E11	134	AL=KOBAYASHI, HI DENORI
E12	1	AL=KOBAYASHI, HI DENORO

Enter P or PAGE for more

? page

Ref	Items	Index-term
E13	1180	AL=KOBAYASHI, HI DEO
E14	2	AL=KOBAYASHI, HI DEQ.
E15	11	AL=KOBAYASHI, HI DEOM
E16	1	AL=KOBAYASHI, HI DEOTOSHI
E17	31	AL=KOBAYASHI, HI DESABURO
E18	139	AL=KOBAYASHI, HI DESHI
E19	54	AL=KOBAYASHI, HI DESHI (ED)
E20	1	AL=KOBAYASHI, HI DESUKE
E21	1	AL=KOBAYASHI, HI DETADA
E22	1	AL=KOBAYASHI, HI DETADA.
E23	62	AL=KOBAYASHI, HI DETAKA
E24	2	AL=KOBAYASHI, HI DETAKE

Enter P or PAGE for more

? page

Ref	Items	Index-term
E25	6	AL=KOBAYASHI, HI DETERU
E26	1	AL=KOBAYASHI, HI DETETSU
E27	10	AL=KOBAYASHI, HI DETO
E28	23	AL=KOBAYASHI, HI DETOMO
E29	560	AL=KOBAYASHI, HI DETOSHI
E30	14	AL=KOBAYASHI, HI DETSUGU
E31	4	AL=KOBAYASHI, HI DETSUNE
E32	2	AL=KOBAYASHI, HI DEYA

10553948deoxyguanosine.txt
E33 1 AU=KOBAYASHI, HI DEYASU
E34 1 AU=KOBAYASHI, HI DEYO
E35 2 AU=KOBAYASHI, HI DEYOSHI
E36 1 AU=KOBAYASHI, HI DEYUK

Enter P or PAGE for more
? e au=kobayashi, hi roko

Ref Items Index-term
E1 289 AU=KOBAYASHI, HI ROKI
E2 262 *AU=KOBAYASHI, HI ROKO
E3 34 AU=KOBAYASHI, HI ROKUNI
E4 1 AU=KOBAYASHI, HI ROKUNI *
E5 113 AU=KOBAYASHI, HI ROMASA
E6 349 AU=KOBAYASHI, HI ROM
E7 169 AU=KOBAYASHI, HI ROM CHI
E8 2 AU=KOBAYASHI, HI ROM CHI P.
E9 27 AU=KOBAYASHI, HI ROM TSU
E10 1 AU=KOBAYASHI, HI ROMN
E11 2 AU=KOBAYASHI, HI ROMOTO
E12 53 AU=KOBAYASHI, HI ROMU

Enter P or PAGE for more
?
PLEASE ENTER A COMMAND OR BE LOGGED OFF IN 5 MINUTES
? s e2 and guanosine
262 AU=KOBAYASHI, HI ROKO
250673 GUANOSINE
S8 0 AU=KOBAYASHI, HI ROKO AND GUANOSINE
? s e2 and deoxyguanosine
262 AU=KOBAYASHI, HI ROKO
64174 DEOXYGUANOSINE
S9 0 AU=KOBAYASHI, HI ROKO AND DEOXYGUANOSINE
? s deoxyguanosine and nucleotide
64174 DEOXYGUANOSINE
2864177 NUCLEOTIDE
S10 6444 DEOXYGUANOSINE AND NUCLEOTIDE
? s s10 and (DNA or deoxribonucleotide)
Processing
Processed 20 of 56 files ...
Completed processing all files
6444 S10
9225258 DNA
S11 4725 S10 AND (DNA OR DEOKRI BONUCLEOTIDE)
? s s11 and methyl? and guanosine
Processing
Processed 20 of 56 files ...
>>>File 399 processing for METHYL? stopped at METHYLCHLOROISO
>>>File 391 processing for METHYL? stopped at METHYL-2-(2-(3-CHLORPHENYL)-HYDRAZONO)-2-I-SOPR
Processing
Processing
Processed 30 of 56 files ...
Completed processing all files
4725 S11
12152350 METHYL?
250673 GUANOSINE
S12 225 S11 AND METHYL? AND GUANOSINE
? rd

>>>Duplicate detection is not supported for File 393.

>>>Duplicate detection is not supported for File 391.

>>>Records from unsupported files will be retained in the RD set.
S13 204 RD (unique items)

>>>Successive range operators in item list

> t s13/3, k/1-15

>>>KWC option is not available in file(s): 399

13/3, K/1 (Item 1 from file: 5)

DI ALOG(R) File: 5: Biosis Previews(R)

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17560993 BIOSIS NO.: 200300516356

3H-labeled alkyl-nucleotides, -nucleosides and -bases for the immunoanalytical quantification of DNA damage and repair.

AUTHOR: Dr. osztock Wolfgang; Lutze Catrin; Krueger Kai; Giesenkamp Karl-Heinz; Rajewsky Manfred F (Reprint)

AUTHOR ADDRESS: Medical School, Institute of Cell Biology (Cancer Research), University of Essen, Hufelandstrasse 55, D-45122, Essen, Germany** Germany

AUTHOR E-MAIL ADDRESS: rajewsky@uni-essen.de

JOURNAL: Journal of Labelled Compounds and Radiopharmaceuticals 46 (9): p 815-835 August 2003 2003

MEDLINE print

ISSN: 0362-4803 (ISSN print)

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

3H-labeled alkyl-nucleotides, -nucleosides and -bases for the immunoanalytical quantification of DNA damage and repair.

ABSTRACT: Analysis of the formation and repair of structurally modified DNA is of particular interest in the study of carcinogenesis, cancer therapy and aging. The quantification of specific DNA lesions by sensitive immunoanalytical methods requires radiotracers with high specific activity. We describe the synthesis...

... al kyl-(8-3H)adenine (Al kyl-Me, Et, n-Bu); O6-al kyl-deoxy(1',2'-3H)guanosine (Al kyl-Me, Et, 1-Pro, n-Bu); O6-ethyl-deoxyguanosine-5'-triphosphate ((2-3H-Ethyl); (8-3H)); O6-al kyl-9-hydroxyhexyl-(8-3H) guanine (Al kyl-Me, Et); 7-ethyl-(8,5'-3H)guanosine-3',5'-cyclic-phosphate; O2- and O4-al kyl-(methyl, 1',2'-3H)thymidine (Al kyl-Me, Et); the conversion of 3H-labeled thymidine to the corresponding 5-methylcytidine; the synthesis of three different 8-oxoguanine tracers; and the generation of thymidine glycol (5,6-di hydroxy-5,6-di hydro-(methyl-3H)thymidine) from thymidine. All radiotracers were successfully employed in competitive radiimmunoassays for the quantification of defined DNA alkylation products in DNA repair analyses.

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS: ...tritiated] 7-ethyl-guanosine -3',5'-cyclic-phosphate...

...tritiated] O-6-al kyl-deoxy-guanosine-...

...tritiated] O-6-ethyl-deoxyguanosine-5'-triphosphate{

METHODS & EQUIPMENT: tritiated] labeled alkyl-nucleotide synthesis

...SCHEMATIC TERMS: DNA damage/repair...

CONCEPT CODES:

13/3, K/2 (Item 2 from file: 5)
 DI ALCG(R) File 5: Biosis Previews(R)
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10352260 BIOSIS NO: 1990090136739
 PROTON AND CARBON-13 NMR CONFORMATIONAL ANALYSIS AND MINIMAL POTENTIAL ENERGY CALCULATIONS WITH DEOXYGUANOSINE GUANOSINE AND GMP ADDUCTS OF THE BORDERLINE CARBONIC ACID 4-METHYLANILINE
 AUTHOR: MEIER C (Reprint); BOCHÉ G
 AUTHOR ADDRESS: FACHBEREICH CHEMIE UNIVERSITÄT MARBURG, HANS-MEERWEIN-STRASSE, D-3550 MARBURG, GERMANY
 JOURNAL: Chemische Berichte 123 (8): p1707-1714 1990
 ISSN: 0009-2940
 DOCUMENT TYPE: Article
 RECORD TYPE: Abstract
 LANGUAGE: GERMAN

PROTON AND CARBON-13 NMR CONFORMATIONAL ANALYSIS AND MINIMAL POTENTIAL ENERGY CALCULATIONS WITH DEOXYGUANOSINE GUANOSINE AND GMP ADDUCTS OF THE BORDERLINE CARBONIC ACID 4-METHYLANILINE

ABSTRACT: The conformations of the C-8-nucleobase adducts of the borderline carbonic acid 4-methylaniline (p-toluidine), N-(deoxyguanosine-8-yl)-4-methylaniline (10), N-(guanosine-8-yl)-4-methylaniline (11), and 8-(4-methylanilino)-5'-guanosine monophosphate (12) have been investigated by ¹H-, ¹³C-NMR spectroscopy and "minimal-potential-energy..."

...the nucleoside adducts 10, 11 exist preferentially in the anti conformation while the 5'-phosphorylated nucleotide adduct 12 exists in the syn conformation. Different conformations are also observed around the backbone...

...nucleoside adducts 10, 11 show a strong preference for the gauche-gauche conformation (ca. 90%), nucleotide adduct 12 exists mainly in the gauche-trans/trans-gauche conformation (ca. 70%). All adducts...

...the conformational data of monocyclic arylamine adducts, 10, 11, and 12 with the conformations of DNA- or oligonucleotide-bonded 2-[(deoxyguanosine-8-yl)amino]fluorene (6) shows, that the conformational situations in the case of the...

...like 2-aminofluorene thus seems not to be connected with the conformational changes of the DNA double helix caused by adduct formation but rather with the in vivo metabolism to give...

...REGISTRY NUMBERS: DEOXYGUANOSINE; ...

...GUANOSINE; ...

...4-METHYLANILINE;
 DESCRIPTORS: 2 AMINOFLUORENE HEPATOCARCINOGEN DNA
 DESCRIPTORS:

CHEMICALS & BIOCHEMICALS: ... DEOXYGUANOSINE; ...

...GUANOSINE; ...

...4-METHYLANILINE;

13/3, K/3 (Item 3 from file: 5)
 DI ALCG(R) File 5: Biosis Previews(R)

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07308021 BOSIS NO.: 198478043428

THE ROLE OF DEOXY NUCLEOSI DE TRI PHOSPHATE POOLS IN THE INHIBITION OF DNA EXCISION REPAIR AND REPLACEMENT IN HUMAN CELLS BY HYDROXY UREA

AUTHOR: SNYDER R D (Reprint)

AUTHOR ADDRESS: STAUFFER CHEM CO, 400 FARMINGTON AVE, FARMINGTON, CT 06032, USA** USA

JOURNAL: Mutation Research 131 (3-4): p163-172 1984

ISSN: 0027-5107

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

THE ROLE OF DEOXY NUCLEOSI DE TRI PHOSPHATE POOLS IN THE INHIBITION OF DNA EXCISION REPAIR AND REPLACEMENT IN HUMAN CELLS BY HYDROXY UREA

ABSTRACT: Effects of hydroxyurea (HU) on the DNA-excision repair process in human cells was systematically examined. It is demonstrated that HU induces DNA single-strand break accumulation in a dose-dependent fashion in UV-irradiated and MVS[methyl methanesulfonate]-treated confluent but not log-phase fibroblasts and that these breaks are clearly there... for at least 10 h and largely disappear by 20 h. The production of these DNA-strand breaks is antagonized by a combined treatment of 10 μ M deoxyadenosine, deoxycytidine and deoxyguanosine; thymidine potentiates strand-break formation at low HU concentrations. It is also confirmed that HU, while inhibiting replicative synthesis has no apparent inhibitory effect on unscheduled DNA synthesis (UDS) although the increased uptake of labeled DNA precursors into HU-treated cells makes it difficult to assess the actual effects on the...

... REGISTRY NUMBERS: METHYL METHANESULFONATE...

... DEOXYGUANOSINE;

DESCRIPTIONS: METHYL METHANESULFONATE UV MUTAGEN DEOXY ADENOSINE DEOXY CYTIDINE DEOXY GUANOSINE METABOLIC DRUG ANTI-DOTE/REDUCTASE/

DESCRIPTIONS:

CHEMICALS & BIOCHEMICALS: ... METHYL METHANESULFONATE...

... DEOXYGUANOSINE;

13/3, K/4 (Item 4 from file: 5)

DI ALCOGOL FILE 5: Biosis Previews(R)

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05965508 BOSIS NO.: 198069079495

SYNTHESIS OF CARBON-14-LABELED METHYLDEOXY GUANOSINE AND ITS DEOXY NUCLEOTIDE CO-POLYMERS

AUTHOR: ABBOTT P J (Reprint); MEHTA J R; LUDLUM D B

AUTHOR ADDRESS: DEP PHARMACOL EXP THER, ALBANY MED COLL UNION UNIV, ALBANY, NY 12208, USA** USA

JOURNAL: Biochemistry 19 (4): p643-647 1980

ISSN: 0006-2960

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

SYNTHESIS OF CARBON-14-LABELED METHYLDEOXY GUANOSINE AND ITS DEOXY NUCLEOTIDE CO-POLYMERS

ABSTRACT: To study the nature and repair of the promutagenic DNA lesions on O₆-methyl guanine, 8-14C-labeled O₆-methyl deoxyguanosine triphosphate [mGTP] was synthesized and the kinetics of its incorporation into the synthetic copolymers poly(dC [deoxycytidine], m6dG [deoxyguanosine]) and poly(dT [deoxyribose thymidine], m6dG) was investigated. Deoxy[8-14C] guanosine was methylated with ethereal diazomethane and the products were separated by high-pressure liquid chromatography. O₆-Methyl deoxy[14C] guanosine was converted to the 5'-monophosphate with carrot phosphotransferase and then to the 5'-triphosphate...

...the action of N,N-carbonyldimidazole. Although m6dGTP was a poor substrate for *Escherichia coli* DNA polymerase I, copolymers could be synthesized from dCTP or dTTP and m6dGTP with terminal deoxyribose triphosphate...

...poly(dC, m6dG). Good yields of both polymers were readily obtained. The stability of O₆-methyl deoxyguanosine in poly(dT, m6dG) was pH dependent and the half-life was measured at 4 pH values. [The relationship between DNA lesions and carcinogenesis is discussed].

DESCRIPTORS: *ESCHERICHIA-COLI* DNA POLYMERASE I CARROT PHOSPHO TRANSFERASE DEOXY NUCLEOTIDYL TRANSFERASE MUTAGENESIS CARCINOGENESIS

13/3, K/5 (Item 1 from file: 24)
DIALCG(R) File 24: CSA Life Sciences Abstracts
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0003193824 IP ACCESSION NO. 8021080
DNA-Protein Cross-links between Guanine and Lysine Depend on the Mechanism of Oxidation for Formation of O₆ Vs C8 Guanosine Adducts

Xu, Xiaoyun; Muller, James G; Ye, Yu; Burrows, Cynthia J
Department of Chemistry, University of Utah, 315 S. 1400 East, Salt Lake City, Utah 84112-0850, [mailto:burrows@chem.utah.edu]

Journal of the American Chemical Society, v 130, n 2, p 703-709, 2008
PUBLICATION DATE: 2008

PUBLISHER: American Chemical Society, P.O. Box 182426 Columbus OH 43218-2426 USA, [mailto:service@acs.org], [URL: http://pubs.acs.org]

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 1272-7863

ELECTRONIC ISSN: 1520-5126

FILE SEGMENT: Nucleic Acids Abstracts

DNA-Protein Cross-links between Guanine and Lysine Depend on the Mechanism of Oxidation for Formation of O₆ Vs C8 Guanosine Adducts

ABSTRACT:

The reaction between N^{super}(alpha)-acetyl lysine methyl ester (Lys) and 2'-deoxyguanosine (dGuo) was used to study structural aspects of DNA-protein cross-link (DPC) formation. The precise structure of DPCs depended on the nature of...

...Sp). Singlet oxygen oxidation of dGuo produced 5-Lys-Sp exclusively when Rose Bengal or methylene blue was used to photochemically generate super(1)O₂ sub(2) in the presence of...

10553948deoxyguanosine.txt

... of dGuo modifications from riboflavin photoxidation increased dramatically in the presence of Lysine. Oxidation of deoxyguanosine/Lysine mixtures with Na sub(2)IrCl sub(6) or sulfate radicals produced both 5...

... double-stranded oligodeoxynucleotides, and these could be analyzed after nucleic acid digestion. Adduct formation in duplex DNA was somewhat dependent on the accessibility of Lysine to C5 vs C8 of the purine...

DESCRIPTIONS: Adducts; DNA; Deoxyguanosine; Guanine; Guanosine; Lysine; Methylene blue; Nucleic acid; Oligonucleotides; Oxidants; Oxidation; Oxygen; Photochemistry; Photooxidation; Radicals; Riboflavin; Sulfate; purines
... SUBJ CATG: Antisense, Nucleotide Analogs

13/3, K/6 (Item 2 from file: 24)
DI ALCG(R) File 24: CSA Life Sciences Abstracts
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0003167481 IP ACCESSION NO: 8010995
Anopheles gambiae Purine Nucleoside Phosphorylase: Catalysis, Structure, and Inhibition

Taylor, EA; Rinaldo-Matthews, A; Li, L; Ghanem, M; Hazleton, KZ; Cassera, MB; Almo, SC; Schramm VL
Department of Biochemistry, Albert Einstein College of Medicine at Yeshiva University, 1300 Morris Park Avenue, Bronx, New York 10461, USA

Biocatalysis (Washington), v 46, n 43, p 12405-12415, October 30, 2007
PUBLICATION DATE: 2007

DOCUMENT TYPE: Journal Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0006-2960
FILE SEGMENT: Nucleic Acids Abstracts

ABSTRACT:
... for 2'-deoxyribose and inosine, its preferred substrates, and 1.0 s super(-1) for guanosine. However, the chemical step is fast for AgPNP at 226 s super(-1) for guanosine in pre-steady-state studies.
5'-Deaza-1'-aza-2'-deoxy-1'-(9-methylene)-lumucillan-H (DADMe-lmH) is a transition-state mimic for a 2'-deoxyribose ribocation with...

... transition state predictions of enhanced transition-state analogue binding in enzymes with enhanced catalytic efficiency. Deoxyguanosine is a weaker substrate than deoxyribose, and DADMe-lumucillan-G is less tightly bound than...

DESCRIPTIONS: Anions; Auxotrophs; Catalysis; Cations; Crystal structure; Deoxyguanosine; Enzymes; Genomes; Guanosine; Homology; Malaria; Nucleotide sequence; Parasites; Phosphatase; Purine-nucleoside phosphorylase; purines; Anopheles gambiae; Escherichia coli; Plasmodium falciparum
... SUBJ CATG: DNA Metabolism & Structure

13/3, K/7 (Item 3 from file: 24)
DI ALCG(R) File 24: CSA Life Sciences Abstracts
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0001028450 I P ACCESSION NO: 2503074

Combinatorial performance liquid chromatography/ super (32)P-post labeling assay of N super (7)-methyl deoxyguanosine.

Shields, PG; Povey, AC; Wilson, VL; Weston, A; Harris, CC
Lab. Hum. Carcinog., Div. Cancer Etiol., Natl. Cancer Inst., Build. 37, Rm
2005, 9000 Rockville Pike, Bethesda, MD 20892, USA

Cancer Research, v 50, n 20, p 6580-6584, 1990

ADDL. SOURCE INFO: Cancer Research [CANCER RES.], vol. 50, no. 20, pp.
6580-6584, 1990

PUBLICATION DATE: 1990

DOCUMENT TYPE: Journal Article

RECORD TYPE: Abstract

LANGUAGE: English

SUMMARY LANGUAGE: English

ISSN: 0008-5472

FILE SEGMENT: Nucleic Acids Abstracts

Combinatorial performance liquid chromatography/ super (32)P-post labeling assay of N super (7)-methyl deoxyguanosine.

ABSTRACT:

A highly sensitive and specific assay for the detection of N super (7)-methyl-2'-deoxyguanosine has been developed by combining combinatorial performance liquid chromatography, super (32)P-post labeling, and nucleotide chromatography.

IDENTIFIERS: N super (7)-methyl deoxyguanosine; detection; DNA; imprinting; methyl homology; derivatives; high-performance liquid chromatography; guanosine

13/3, K/8 (Item 1 from file: 34)

DI ALCG(R) File: 34: Sci Search(R) Cited Ref Sci
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12358629 Genuine Article#: 758PH No. References: 43

Title: A new, but old, nucleoside analog: the first synthesis of 1-deaza-2'-deoxyguanosine and its properties as a nucleoside and as oligodeoxynucleotides

Author: Kojima N (REPRINT); Inoue K; Nakajima-Shibata R; Kawahara S; Otsuka E

Corporate Source: Natl Inst Alst, Inst Biol Resources & Funct, Toyohira-ku, 2-17-2-1 Tsukimi-samu Ho-gashi / Sapporo/Hokkaido 0628517/Japan/ (REPRINT); Natl Inst Alst, Inst Biol Resources & Funct, Toyohira-ku, Sapporo/Hokkaido 0628517/Japan/; Natl Inst Alst, Fellow Res Grp, Toyohira-ku, Sapporo/Hokkaido 0628517/Japan/; Natl Inst Alst, Cent 4, Gene Funct Res Lab, Tsukuba/Ibaraki 3058562/Japan/

Journal: NUCLEIC ACIDS RESEARCH, 2003, V31, N24 (DEC 15), P7175-7188

ISSN: 0305-1048 Publication Date: 20031215

Publisher: OXFORD UNIV PRESS, GREAT CLARENDON ST, OXFORD OX2 6DP, ENGLAND
Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: A new, but old, nucleoside analog: the first synthesis of 1-deaza-2'-deoxyguanosine and its properties as a nucleoside and as oligodeoxynucleotides

Abstract: 2'-deoxy-beta-D-ribofuranosyl imidazo[4,5-b]pyridin-7-one (1-deaza-2'-deoxyguanosine) is described. The compound was converted from the known AlQ4-deoxyriboside. The tautomeric structure of...

... form. Although the analog was found to be labile to acidic conditions, 1-deaza-2'-deoxyguanosine was successfully converted into a phosphoramidite derivative, which was incorporated into oligodeoxynucleotides by the standard phosphoramidite method. Thermal stabilities of oligodeoxynucleotides containing 1-deaza-2'-deoxyguanosine were investigated by thermal denaturing experiments. Also, a triphosphate analog of 1-deaza-2'-deoxyguanosine was synthesized for polymerase extension containing 1-deaza-2'-deoxyguanosine triphosphate, were performed using the Klenow fragment (exonuclease minus) polymerase and other polymerases. No hydrogen bonded base pairs, even a 1-deaza-2'-deoxyguanosine:cytidine base pair, were indicated by thermal denaturing studies. However, though less selective and less effective than the natural guanosine counterpart, the polymerase extension reactions suggested the formation of a base pair of 1-deaza-2'-deoxyguanosine with cytidine during the insertion reactions.

... Identifiers: DNA-POLYMERASE-BETA; KLENOW FRAGMENT; HYDROGEN-BONDS; NMR-GROOVE; STABILITY; C-6-METHYLGUANINE; 1-DEAZAGUANOSINE; NUCLEOTIDES; BINDING; OLIGONUCLEOTIDES

13/3, K/9 (Item 2 from file: 34)
 DALCG(R) File: 34:Sci Search(R) Cited Ref Sci
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08094615 Genuine Article#: 246MQ No. References: 50
 Title: Is O-1(2) alone sufficient for DNA cleavage? Possible involvement of paramagnetic intermediates
 Author: Chanon M (REPRINT); Julliard M; Mehta G; Maiya BG
 Corporate Source: FAC SCI & TECH ST JEROME, LAB AMB, CASE 561/F-13397
 MARSEILLE 20/FRANCE/ (REPRINT); INDIAN INST SCI, DEPT ORGAN
 CHEM BANGALORE 560012/KARNATAKA/INDIA/; UNIV HYDERABAD, SCH
 CHEM HYDERABAD 500046/ANDHRA PRADESH/INDIA/
 Journal: RESEARCH ON CHEMICAL INTERMEDIATES, 1999, V25, N7, P633-644
 ISSN: 0922-6168 Publication Date: 19990000
 Publisher: VSP BV, PO BOX 346, 3700 AH ZEIST, NETHERLANDS
 Language: English Document Type: REVIEW (ABSTRACT AVAILABLE)

Title: Is O-1(2) alone sufficient for DNA cleavage? Possible involvement of paramagnetic intermediates
 Abstract: It is proposed that singlet di oxygen reacting with guanosine or deoxyguanosine part of nucleotides does not, by itself, cause DNA cleavage. The strand break originates at the endoperoxide stage whenever this link evolves into a...

... spatial position to abstract an hydrogen intramolecularly from the ribose or deoxyribose part of the nucleotide. The carbon centered radical thus formed on the sugar part may lead to strand break
 ... Identifiers: SINGLET OXYGEN; METHYLENE-BLUE; MECHANISMS; STRAND BREAKS; NUCLEIC ACIDS; PLASMA LIGHT; OXIDATION; DAMAGE; GUANINE; BASE

13/3, K/10 (Item 3 from file: 34)
 DALCG(R) File: 34:Sci Search(R) Cited Ref Sci
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06991103 Genuine Article#: 112NK No. References: 76
 Title: Prolonged depletion of guanosine triphosphate induces death of insulin-secreting cells by apoptosis

10553948deoxyguanosine.txt

Author: Li GD (REPRINT); Segu VBG, Rabagliia ME; Luo RH; Kowuru A; Metz SA
Corporate Source: NATL UNIV SINGAPORE, NATL UNIV MED INST, MD 11 02-01, 10
KENT RIDGE CRESCENT/ SINGAPORE 119260/ SINGAPORE (REPRINT); WLLIAMS
MIDDLETON MEM VET ADM MED CTR, ENDOCRI NOL SECT, MED
SERV/ MADI SCV/ W 53705; UNIV WISCONSIN, SCH MED, DEPT MED, DI V
ENDOCR NOL/MADI SCV/ W 53792

Journal: ENDOCRI NOLOGY, 1998, V139, N9 (SEP), P3752-3762

ISSN: 0013-7227 Publication Date: 19980900

Publisher: ENDOCRI NE SOC, 4350 EAST WEST HIGHLANDS SUITE 500, BETHESDA, MD
20814-4110

Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Title: Prolonged depletion of guanosine triphosphate induces death of
insulin-secreting cells by apoptosis

Abstract: Both MPA and mizoribine inhibited mitogenesis, as reflected by
[³H]thymidine incorporation. Cell number, DNA and protein
contents, and cell (metabolic) viability were decreased by about 30%
60% and 80%.

prolonged MPA treatment. MPA-treated HIT cells displayed a strong and
localized staining with a DNA-binding dye (propidium iodide),
suggesting condensation and fragmentation of DNA, which were
confirmed by detection of DNA laddering in multiples of about 180
bp. DNA fragmentation was observed after 24-h MPA treatment and
was dose dependent (29% 49% and...).

and loss of microvilli. MPA-induced cell death was almost totally
prevented by supplementation with guanosine, but not with
adenosine or deoxyguanosine, indicating a specific effect of GTP
depletion. An inhibitor of protein isoprenylation (lovastatin, 10-100
μM for 2-3 days) induced cell death and DNA degradation similar
to those induced by sustained GTP depletion, suggesting a mediator
role of posttranslational...

death compatible with apoptosis; this probably involves a direct
impairment of GTP-dependent RNA-primed DNA synthesis, but also
appears to be modulated by small GTP-binding proteins. Treatment of
intact...

Identifiers: GTP-BINDING PROTEINS; CEREBELLAR GRANULE NEURONS; HUMAN
PANCREATIC ISLETS; INTACT RAT ISLETS; BETA-CELLS; DNA-SYNTHESIS;
MACROMOLECULAR-SYNTHESIS; MYOCOPHENOLATE MOFETIL; NUCLEOTIDE
PRECURSORS; CARBOXYL METHYLATION

13/3, K/11 (Item 4 from file: 34)

DI ALCG(R) File: 34: SciSearch(R) Cited Ref Sci

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05164320 Genuine Article#: VE373 No. References: 54

Title: ONE-ELECTRON OXIDATION REACTIONS OF SOME PURINE AND PYRIMIDINE BASES
IN AQUEOUS-SOLUTIONS - ELECTROCHEMICAL AND PULSE-RADIOLYSIS STUDIES

Author: FARAGI M; BROITMAN F; TRENT JB; KLAPPER MH

Corporate Source: NUCL RES CTR NEGEV, DEPT CHEM POB 9001/IL-84190 BEER
SHEVA/ISRAEL; CHICAGO STATE UNIV, DEPT CHEM BIOL CHEM
DI V/COLUMBUS/CH 43210

Journal: JOURNAL OF PHYSICAL CHEMISTRY, 1996, V100, N35 (AUG 29), P
14751-14761

ISSN: 0022-3654

Language: ENGLISH Document Type: ARTICLE (Abstract Available)

Abstract: The reduction potentials of some purine and pyrimidine bases and
the guanine nucleoside and nucleotide at pH values between 7 and
13 were investigated using the techniques of cyclic voltammetry...

10553948deoxyguanosine.txt
...volts vs NHE, at pH 7 are those of xanthine, 0.88 V, and 1-methylguanine, 1.06 V (NHE). The extrapolated value of guanine is ca. 1.0 V. We...
...a radical-radical mechanism with a second-order rate constant. However, the guanine nucleosides and nucleotide radicals have shown at all pHs two consecutive processes (first order followed by a second...
...of a new transient was observed at pH greater than or equal to 9 for guanosine, pH greater than or equal to 11 for 2'-deoxyguanosine, and at pH 13 for 5'-GMP. The observed new transient spectra were similar to...
...for the oxidized guanine radical. Therefore, we suggest that in these oxidized guanine nucleosides and nucleotide the oxidized guanine radical has been released. As previously suggested our results imply that the...
...83, 1-11) we suggest a proton assisted mechanism for a double strand break in DNA.
...Identifiers: REDOX POTENTIALS; FREE-RADIICALS; REDUCTION POTENTIALS; RATE CONSTANTS; DNA; NUCLEOSIDES; CHEMISTRY; TRYPTOPHAN; CYTOSINE; TYROSINE

13/3, K/12 (Item 5 from file: 34)
DI ALCG(R) File: 34: Sci Search(R) Cited Ref Sci
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04362220 Genuine Article#: RZ240 No. References: 81
Title: X-RAY CRYSTAL-STRUCTURE ANALYSIS OF THE CATALYTIC DOMAIN OF THE ONCOGENE PRODUCT P21(H-RAS) COMPLEXED WITH CAGED GTP AND MANT DGPPNHP
Author: SCHEIHL AJ; FRANKEN SM; CORRIE JET; REID GP; WITTI NGHOFER A; PAI EF; GOODY RS
Corporation Source: MAX PLANCK INSTITUT MOLEK PHYSIK, RHEINLANDDAMM 201/D-44026 DORTMUND/ GERMANY; MAX PLANCK INSTITUT MOLEK PHYSIK D-44026 DORTMUND/ GERMANY; MAX PLANCK INSTITUT MED RES, BIOPHYS ABT/D-69028 HEI DELBERG/ GERMANY; NATL INST MED RES/LONDON NW1 1AV/ ENGLAND; UNI V TORONTO, DEPT BIOCHEM & MOLEC & MED GENET/ TORONTO ON M5S 1A8/ CANADA/ ISSN: 0022-2836
Language: ENGLISH Document Type: ARTICLE (Abstract Available)

...Abstract: H-ras (residues 1 to 166) and the nucleotides P-3'-1-(2-nitrophenyl)ethyl guanosine triphosphate (''caged GTP''; pure R- and S-diasteromers) and 3'-O-(N-methylanthraniloyl)-2'-deoxyguanosine 5'- (beta, gamma-imido)-triphosphate (''mant dGppNhp''), have been refined to an R-factor of...
...of loop L2 (residues Glu31 to Thr35) where the additional aromatic group attached to the nucleotide comes very close to the side-chain of Tyr32, including backbone displacements of 2.6...
...and mant dGppNhp, respectively. The refined structures provide additional data for the design of new nucleotide analogs and the importance of their stereochemistry as well as for the design of new...
...Identifiers: NUCLEOTIDE EXCHANGE; SACCHAROMYCES; CEREBRAL SIAE; 3-DIMENSIONAL STRUCTURES; DIFFRACTION DATA; TRI-PHOSPHATE CONFORMATION; MOLECULAR MECHANISM; ALPHA-CHYMOTRYPSIN; ACTIVATING
...Research Fronts: NMR RESONANCE ASSIGNMENTS; SECONDARY STRUCTURE ELEMENTS; BOVINE PANCREATIC TRYPSIN INHIBITOR; GLOBAL FOLD OF OXIDIZED MERR; DNA-BINDING DOMAIN
93-3088 001 (RAT MUSCLE; PROTEIN PHOSPHATASE-1; MAJOR GLUTATHIONE

13/3, K/13 (Item 1 from file: 72)
DIALOG(R) File 72: EMBASE
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0082062390 EMBASE No: 2007496932
Stereochemical synthesis and characterization of
oligodeoxyribonucleotides containing an N²-2-(1-carboxyethyl)-2-prime-
deoxyguanosine

Cao H.; Jiang Y.; Wang Y.
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Journal of the American Chemical Society (J. Am. Chem. Soc.) (United
States) October 10, 2007, 129/40 (12123-12130)

CODEN: JACSA I ISSN: 0002-7863

DOI: 10.1021/ja072130e

DOCUMENT TYPE: Journal Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 45

Stereochemical synthesis and characterization of
oligodeoxyribonucleotides containing an N²-2-(1-carboxyethyl)-2-prime-
deoxyguanosine

Methylglyoxal is a highly reactive alpha-ketoaldehyde that is
produced endogenously and present in the environment and foods. It can
modify DNA and proteins to form advanced glycation end products
(AGEs). Emerging evidence has shown that N²-2-(1-carboxyethyl)-2-prime-
deoxyguanosine (N²-2'-C₂O₂G) is a major marker for AGE-linked
DNA adducts. Here, we report, for the first time, the preparation of
oligodeoxyribonucleotides (ODNs) containing individual...

...block considerably the replication on synthesis mediated by the
exonuclease-free Klenow fragment of *Escherichia coli* DNA polymerase
I. Strikingly, the polymerase incorporated incorrect nucleotides, dGMP and
dAMP, opposite the lesion more preferentially than the correct
nucleotide, dCMP. (c) 2007 American Chemical Society.

DRUG DESCRIPTIONS:

*deoxyguanosine derivative; *oligodeoxyribonucleotide
adenosine phosphate; advanced glycation end product; aldehyde derivative;
cytidine phosphate; DNA polymerase; exonuclease; guanosine
phosphate; ketone derivative; methylglyoxal

MEDICAL DESCRIPTIONS:

article; asterisk; DNA adduct; DNA modification;
Escherichia coli; melting point; molecular stability; oligomerization;
protein modification; reaction analysis; synthesis; thermodynamics

DRUG TERMS (UNCONTROLLED): N²-2-(1-carboxyethyl)-2'-deoxyguanosine

...CAS REGISTRY NO.: 8063-98-7 (adenosine phosphate); 63-37-6 (cytidine
phosphate); 37217-33-7 (DNA polymerase); 37228-74-3 (exonuclease)
; 29593-02-...

...85-32-5 (guanosine phosphate); 78-98-8 (methylglyoxal)

DI ALG(R) File 72: EMBASE

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0079735258 EMBASE No: 2003445075
 8-Methyl guanosine: A Powerful Z-DNA Stabilizer
 Xu Y.; Ikeda R.; Sugiyama H.
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 CORRESP. AUTHOR/AFFILI: Sugiyama H.; Inst. of Biomater. and Biomedical Engineering, Tokyo Medical and Dental University, Chi yoda, Tokyo 101-0062, Japan
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Journal of the American Chemical Society (J. Am. Chem. Soc.) (United States) November 5, 2003, 125/44 (13519-13524)
 CODEN: JACSA ISSN: 0022-7863
 DOI: 10.1021/ja036233i
 DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract
 LANGUAGE: English SUMMARY LANGUAGE: English
 NUMBER OF REFERENCES: 33

8-Methyl guanosine: A Powerful Z-DNA Stabilizer

... SUB 4 of d(CGCGCG) SUB 2 to evaluate their capacity to stabilize Z-form DNA. It was found that the incorporation of 8-methyl guanosine (m⁸G) in oligonucleotides stabilizes the Z form more dramatically than does the incorporation of 8-methyl-2-prime-deoxyguanosine (m⁸G). This enhancement is ascribed to a reduction in the entropic penalty, which...

... introduction of hydrophilic groups in solvent-exposed regions. The incorporation of m⁸G into DNA sequences markedly stabilizes the Z form even in the absence of NaCl. The Z-DNA stabilizer allows oligonucleotides with a wide range of sequences to be converted to the Z...

DRUG DESCRIPTIONS:

*DNA; *guanosine derivative

MEDICAL DESCRIPTIONS:

*DNA conformation article; chemical reaction; entropy; hydrophilicity; nucleotide sequence; synthesis

DRUG TERMS (UNCONTROLLED): 8-methyl 2' deoxyguanosine; 8-methyl guanosine

CAS REGISTRY NO.: 9007-49-2 (DNA); 7647-14-5 (sodium chloride)

13/3, K/15 (Item 3 from file: 72)

DI ALG(R) File 72: EMBASE

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0077071763 EMBASE No: 1997365032
 DNA helicase activity of the hepatitis C virus nonstructural protein 3
 Gwack Y.; Kim D.W.; Han J.H.; Choe J.
 Department of Biological Sciences, Korea Adv. Inst. Sci. and Technol., Taejon, Korea, Republic of
 CORRESP. AUTHOR/AFFILI: Choe J.; Department of Biological Sciences, Korea Advanced Inst. Sci. & Technology, Taejon 305-701, Korea, Republic of

European Journal of Biochemistry (EUR. J. BIOCHEM.) (Germany) December 9, 1997, 250/1 (47-54)

CODEN: EUBCA ISSN: 0014-2956

DOCUMENT TYPE: Journal; Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English
NUMBER OF REFERENCES: 37

DNA helicase activity of the hepatitis C virus nonstructural protein 3

... HCV nonstructural protein 3 (NS3) is a known RNA helicase, an enzyme that unwinds RNA-DNA and RNA-RNA duplexes. We have now deciphered the biochemical characteristics of the HCV NS3 DNA helicase activity. Recombinant NS3 was expressed in *Escherichia coli*, purified to near homogeneity, and tested for DNA helicase activity. The optimal conditions for DNA unwinding (for example, the preferred pH and magnesium ion concentration) were similar to those for RNA unwinding. The DNA helicase activity was very sensitive to potassium ion concentration, while DNA binding and DNA-stimulated ATPase activities were not. The direction of DNA unwinding was determined to be 3' to 5'. All four ribonucleoside triphosphates (ATP, GTP, CTP, ...)

... serve as energy sources, but GTP and dGTP were less efficient than the others. When nucleotide analog inhibitors were added to the DNA helicase reaction, the overall order of inhibitory capacity was: adenosine 5'-O-(3-thiophosphate) > adenylyl-imidodiphosphate and adenylyl-(beta, gamma-methylene)-diphosphate > AMP. DNA helicase activity was inhibited strongly by ssDNA and ssRNA, but was little affected by dsDNA...

... not by dsDNA. The NS3 protein could unwind up to 500 base pairs of duplex DNA. The possible multifunctional nature of the NS3 protein is discussed and compared with that of...

DRUG DESCRIPTIONS:

adenosine 5'-O-(3-thiophosphate); adenosine triphosphate; adenosine triphosphatase; adenosine triphosphate; adenylyl-imidodiphosphate; beta, gamma-methyleneadenosine triphosphate; cytidine triphosphate; deoxyadenosine triphosphate; deoxycytidine triphosphate; deoxyguanosine triphosphate; dna; double stranded dna; guanosine triphosphate; magnesium ion; potassium ion; recombinant enzyme; ribonucleoside; rna; single stranded dna; thymidine triphosphate; uridine triphosphate; virus enzyme; virus protein

MEDICAL DESCRIPTIONS:

article; controlled study; dna binding; dna denaturation; enzyme activity; enzyme inhibition; enzyme purification; enzyme substrate; *escherichia coli*; nonhuman; ph; priority journal...

... CAS REGISTRY NO.: 987-65-5 (adenosine triphosphate); 25612-73-1 (adenylyl-imidodiphosphate); 3469-78-1 (beta, gamma-methyleneadenosine triphosphate); 65-47-4 (cytidine triphosphate); 1927-31-7 (deoxyadenosine triphosphate); 2056-98-6 (deoxycytidine triphosphate); 2564-35-4 (deoxyguanosine triphosphate); 9007-49-2 (DNA); 86-01-1 (guanosine triphosphate); 42613-29-6 (helicase); 22537-22-0 (magnesium ion); 24203-36-9 (potassium ion...)